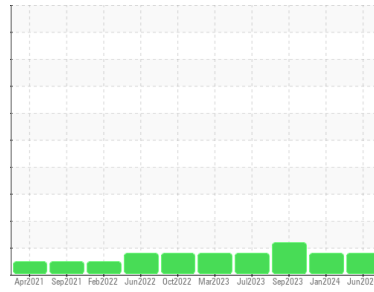




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
DICK LAVY
 Machine Id
DICK LAVY 4831
 Component
Rear Differential
 Fluid
Differential Oil (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0934594	WC0900825	WC0853911
Sample Date	Client Info		06 Jun 2024	10 Jan 2024	24 Sep 2023
Machine Age	mls	Client Info	479785	413786	375533
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	153	166	214
Chromium	ppm	ASTM D5185m >10	1	1	2
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	3	2
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >100	1	2	2
Tin	ppm	ASTM D5185m >10	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	78	90	75
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	8	8	11
Magnesium	ppm	ASTM D5185m	171	147	144
Calcium	ppm	ASTM D5185m	8	11	9
Phosphorus	ppm	ASTM D5185m	1677	1695	1569
Zinc	ppm	ASTM D5185m	10	5	0
Sulfur	ppm	ASTM D5185m	26819	27093	21683

CONTAMINANTS

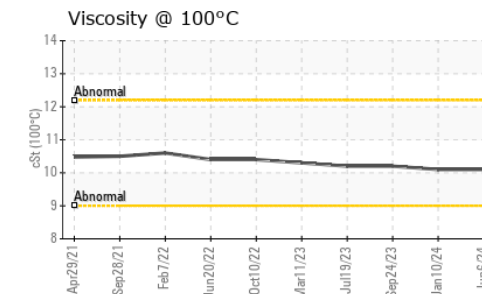
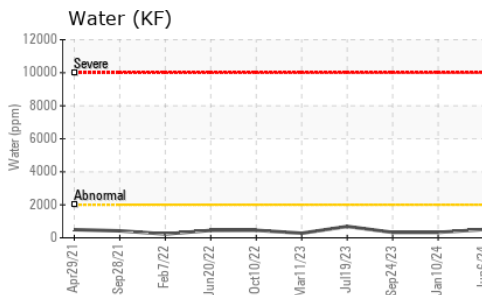
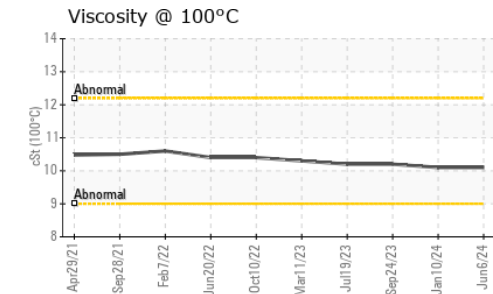
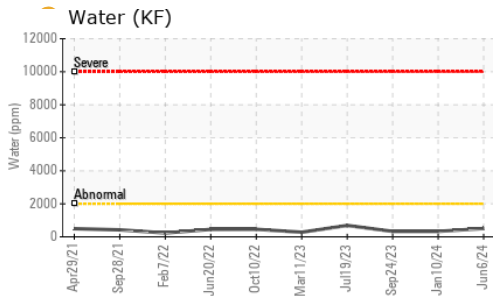
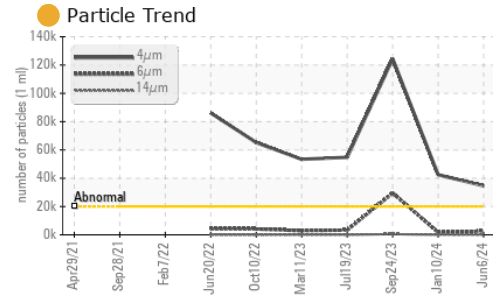
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	35	34	41
Sodium	ppm	ASTM D5185m	4	5	3
Potassium	ppm	ASTM D5185m >20	2	4	<1
Water	%	ASTM D6304 >.2	0.050	0.032	0.032
ppm Water	ppm	ASTM D6304 >2000	504	329	329.2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	34645	42457	124444
Particles >6µm	ASTM D7647	>5000	2620	1752	29544
Particles >14µm	ASTM D7647	>640	50	19	488
Particles >21µm	ASTM D7647	>160	12	3	72
Particles >38µm	ASTM D7647	>40	1	0	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	22/19/13	23/18/11	24/22/16

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.93	1.00



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.5	56.8	56.6
Visc @ 100°C	cSt	ASTM D445	10.1	10.1	10.2
Viscosity Index (VI)	Scale	ASTM D2270	164	166	170

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934594 **Received** : 12 Jul 2024
Lab Number : 06234897 **Tested** : 18 Jul 2024
Unique Number : 11123731 **Diagnosed** : 18 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - MIKE BARRY
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: ARJUN GOYAL
 ARJUN.GOYAL@BASF.COM

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: